Alcohol Use During Sex As A Predictor Of Unprotected Intercourse Among Latino Men Who Have Sex With Men From San Diego And Tijuana

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1. Objective:

To examine, among a cross-section of men who have sex with men from San Diego, California, and Tijuana, Mexico, alcohol use during sex in relation to unprotected insertive and receptive anal intercourse.

2. Methods:

Latino men who have sex with men from San Diego (n=125) and Tijuana (n=249) were recruited from gay-identified venues (e.g., bars and cruising sites). In addition to interview data, specimens were collected for HIV-antibody testing. Twenty-four percent tested positive for HIV. Alcohol use during sex within the past 4 months was examined in relation to unprotected insertive and receptive anal intercourse during the past 4 months. A first set of analyses controlled for site; age; HIV serostatus; injection drug use, prostitution, and multiple (2+) male sex partners (each during previous 4 months); history of homelessness, and history of incarceration for over one week. A second set of analyses included measures of methamphetamines, cocaine, and crack use during sex, past 4 months.

3. Results:

Alcohol use during sex was independently related to insertive anal (Table 1) and receptive anal (Table 2) intercourse. In models that included use of methamphetamines, cocaine, and crack during sex, alcohol use during sex was independently associated with insertive anal intercourse with males (Table 1), but not associated with receptive anal intercourse (Table 2).

6. Conclusion:

Alcohol use can withstand multiple controls, including multiple sex partners and stimulant use, to predict unprotected sexual intercourse. Our findings are limited because use of alcohol was not tied to specific acts of intercourse.

4. - Table 1: Multivariate analyses for unprotected _insertive_ anal intercourse with (Model I) and without (Model II) measures of stimulant use.

	MODEL I		MODEL I	
	Odds Ratio	95% C.I.	Odds Ratio	95% C.I.
Alcohol Use During Sex, Past 4 Months	2.5	1.4 - 4.4	2.5	1.3 - 4.8
Tijuana (vs. San Diego)	.35	.18 - .69	.36	.18 - .71
26 – 29 years old (vs. 18 – 25)	.99	.54 - 1.8	1.1	.60 - 2.0
HIV Positive	.83	.43 - 1.6	.80	.42 - 1.5
History of Homelessness	.76	.39 - 1.5	.77	.39 - 1.5
History of Incarceration	.55	.25 - 1.2	.49	.21 - 1.1
Injection Drug Use, Past 4 Months	.80	.33 - 1.9	.74	.29 - 1.9
Prostitution, Female John, Past 4 Months	2.2	.79 - 6.2	2.5	.87 - 7.5
Prostitution, Male John, Past 4 Months	4.0	1.7 - 9.2	4.1	1.7 - 9.8
2+ Male Partners, Past 4 Months	1.6	.92 - 2.8	1.7	.95 - 3.1
Methamphetamine Use, Past 4 Months	-	-	1.3	.49 - 3.4
Cocaine Use, Past 4 Months	-	-	.23	.06 - .85
Crack Cocaine Use, Past 4 Months	-	-	5.2	1.3 - 20.6

5. - Table 2: Multivariate analyses for unprotected _receptive_ anal intercourse with (Model I) and without (Model II) measures of stimulant use.

	MODEL I		MODEL II	
	Odds Ratio	95% C.I.	Odds Ratio	95% C.I.
Alcohol Use During Sex, Past 4 Months	2.0	1.0 - 4.0	1.9	.88 - 4.2
Tijuana (vs. San Diego)	.62	.30 - 1.3	.63	.30 - 1.3
26 – 29 years old (vs. 18 – 25)	.56	.27 - 1.2	.57	.27 - 1.2
HIV Positive	.99	.49 - 20	.94	.45 - 2.0
History of Homelessness	.85	.39 - 1.8	.87	.40 - 1.9
History of Incarceration	.99	.33 - 3.0	.96	.31 - 3.0
Injection Drug Use, Past 4 Months	.16	.03 - 1.0	.14	.02 - 1.0
Prostitution, Female John, Past 4 Months	3.7	.46 - 29.7	3.4	.40 - 29.0
Prostitution, Male John, Past 4 Months	1.3	.45 - 4.1	1.4	.45 - 4.3
2+ Male Partners, Past 4 Months	1.2	.62 - 2.3	1.2	.61 - 2.4
Methamphetamine Use, Past 4 Months	-	-	.96	.24 - 3.8
Cocaine Use, Past 4 Months	-	-	.80	.12 - 5.3
Crack Cocaine Use, Past 4 Months	-	-	1.7	.27 - 10.4